Canadian Journal of Microbiology

tions by Sphingomonas paucimobilis EPA 505

maculans, the causative agent of blackleg disease of canola

Revue canadienne de microbiologie

Contents Volume 48, 2002

January / janvier

Sommaire Volume 48, 2002

R.W. Moulder, F.E. French, and C.J. Chang Simplified media for spiroplasmas associated with tabanid flies V. Usha, R. Jayaraman, J.C. Toro, S.E. Hoffner, and K.S. Das Glycine and alanine dehydrogenase activities are catalyzed by the same protein in Mycobacterium smegmatis: upregulation of both activities under microaerophilic adaptation 7 V.L. Nsereko, K.A. Beauchemin, D.P. Morgavi, L.M. Rode, A.F. Furtado, T.A. McAllister, A.D. Iwaasa, W.Z. Yang, and Y. Wang Effect of a fibrolytic enzyme preparation from Trichoderma longibrachiatum on the rumen microbial population of P.M. Fedorak, D.L. Cov, M.J. Salloum, and M.J. Dudas Methanogenic potential of tailings samples from oil sands extraction C. Gusils, S. Cuozzo, F. Sesma, and S. González Examination of adhesive determinants in three species of Lactobacillus isolated from chicken D. Tremblay, J. Lemay, M. Gilbert, Y. Chapdelaine, C. Dupont, and R. Morosoli High-level heterologous expression and secretion in Streptomyces lividans of two major antigenic proteins from Mycobacterium tuberculosis 43 C.A. Morgan and R.C. Wyndham Characterization of tdt genes for the degradation of tricyclic diterpenes by Pseudomonas diterpeniphila A19-6a 49 G.D. Inglis and L.M. Kawchuk Comparative degradation of oomycete, ascomycete, and basidiomycete cell walls by myco-60 parasitic and biocontrol fungi M. Zamudio, A. González, and F. Bastarrachea Regulation of Raoultella terrigena comb.nov. phytase expression 71 M.S. Juárez Tomás, E.B. de Labanda, A.P. de Ruiz Holgado, and M.E. Nader-Macías Estimation of vaginal probiotic lactobacilli growth parameters with the application of the Gompertz model 82 T.W. Hill, D.M. Loprete, K.N. Vu, S.P. Bayat Mokhtari, and L.V. Hardin Proteolytic release of membrane-bound endo-(1,4)β-glucanase activity associated with cell wall softening in Achlva ambisexualis 93 K. Ludwig, M.A. Karmali, C.R. Smith, and M. Petric Cross-protection against challenge by intravenous Escherichia coli verocytotoxin 1 (VT1) in rabbits immunized with VT2 toxoid 99 February / février M.A. Azcárate-Peril and R.R. Raya Sequence analysis of pLBB1, a cryptic plasmid from Lactobacillus delbrueckii subsp. 105 bulgaricus P. Bayardelle and M. Zafarullah Development of oligonucleotide primers for the specific PCR-based detection of the most frequent Enterobacteriaceae species DNA using wec gene templates 113 J. Ventura-Juárez, R. Campos-Rodríguez, and V. Tsutsumi Early interactions of Entamoeba histolytica trophozoites with parenchymal and inflammatory cells in the hamster liver: an immunocytochemical study 123 P. Di Martino, A. Merieau, R. Phillips, N. Orange, and C. Hulen Isolation of an Escherichia coli strain mutant unable to form biofilm on polystyrene and to adhere to human pneumocyte cells: involvement of tryptophanase 132 M.J. Nykänen, M. Raudaskoski, H. Nevalainen, and A. Mikkonen Maturation of barley cysteine endopeptidase expressed in 138 Trichoderma reesei is distorted by incomplete processing D.J. Luning Prak and P.H. Pritchard Degradation of polycyclic aromatic hydrocarbons dissolved in Tween 80 surfactant solu-

P.H. Beatty and S.E. Jensen Paenibacillus polymyxa produces fusaricidin-type antifungal antibiotics active against Leptosphaeria

B.I. Gerashchenko, I.I. Gerashchenko, T. Kosaka, and H. Hosoya Stimulatory effect of aerosil on algal growth

151

159

170

K.A. El-Tarabily Total microbial activity and microbial composition of a mangrove sediment are reduced by oil pollution at a site in the Arabian Gulf	176
J.M. Caldwell and H.M. Hassan Azotobacter chroococcum does not contain sodA or its gene product Mn-superoxide dismutase	183
March / mars	
A.A. Belimov, V.I. Safronova, and T. Mimura Response of spring rape (<i>Brassica napus</i> var. <i>oleifera</i> L.) to inoculation with plant growth promoting rhizobacteria containing 1-aminocyclopropane-1-carboxylate deaminase depends on nutrient status of the plant	189
E. Sláviková, B. Košíková, and M. Mikulášová Biotransformation of waste lignin products by the soil-inhabiting yeast Trichosporon pullulans	200
M.N. Thormann, R.S. Currah, and S.E. Bayley The relative ability of fungi from <i>Sphagnum fuscum</i> to decompose selected carbon substrates	204
M.B. Martel, C. Hervé du Penhoat, R. Létoublon, and M. Fèvre Purification and characterization of a glucoamylase secreted by the plant pathogen <i>Sclerotinia sclerotiorum</i>	212
E.J. Urquhart and Z.K. Punja Hydrolytic enzymes and antifungal compounds produced by <i>Tilletiopsis</i> species, phyllosphere yeasts that are antagonists of powdery mildew fungi	219
Y. Bai, F. D'Aoust, D.L. Smith, and B.T. Driscoll Isolation of plant-growth-promoting Bacillus strains from soybean root nodules	230
S.E. Barbaro, J.T. Trevors, and W.E. Inniss Effect of different carbon sources and cold shock on protein synthesis by a psychrotrophic <i>Acinetobacter</i> sp.	239
A.H. Mounteer, F.M.L. Passos, A.C. Borges, and D.O. Silva Detecting structural and functional differences in activated sludge bacterial communities originating from laboratory treatment of elementally and totally chlorine-free bleaching effluents	245
N.B. Hendriksen and B.M. Hansen Long-term survival and germination of Bacillus thuringiensis var. kurstaki in a field trial	256
J. Koskella and G. Stotzky Larvicidal toxins from Bacillus thuringiensis subspp. kurstaki, morrisoni (strain tenebrionis), and israelensis have no microbicidal or microbiostatic activity against selected bacteria, fungi, and algae in vitro	262
R. París and L. Lamattina Increased ratio of mitochondrial rDNA to cytoplasmic rDNA during zoosporic and germinating cyst stages of the life cycle of <i>Phytophthora infestans</i> (Mont.) de Bary	268
D. Rodrigues, M. Landgraf, and M.T. Destro Evaluation of two commercial methods for the detection of Listeria sp. and Listeria monocytogenes in a chicken nugget processing plant	275
April / avril	
C.A. Tabrett and L. Copeland Enzymes of malate metabolism in Mesorhizobium ciceri CC 1192	279
P. Estrada, P. Mavingui, B. Cournoyer, F. Fontaine, J. Balandreau, and J. Caballero-Mellado A N ₂ -fixing endophytic <i>Burkholderia</i> sp. associated with maize plants cultivated in Mexico	285
H. Bredholt, P. Bruheim, M. Potocky, and K. Eimhjellen Hydrophobicity development, alkane oxidation, and crude-oil emulsification in a <i>Rhodococcus</i> species	295
T.M. Scott, J. Lukasik, and S.R. Farrah Improved method for recovery of bacteriophage from large volumes of water using negatively charged microporous filters	305
G. Taylor, S. Jabaji-Hare, P.M. Charest, and W. Khan Purification and characterization of an extracellular exochitinase, β-N-acetylhexosaminidase, from the fungal mycoparasite <i>Stachybotrys elegans</i>	311
A.N. Starratt, L.M. Ross, and G. Lazarovits 1,8-Dihydroxynaphthalene monoglucoside, a new metabolite of <i>Sclerotinia sclerotiorum</i> , and the effect of tricyclazole on its production	320
K. Nandakumar, T. Shinozaki, H. Obika, T. Ooie, A. Utsumi, and T. Yano Impact of pulsed Nd:YAG laser on the marine biofilm-forming bacteria <i>Pseudoalteromonas carrageenovora</i> : significance of physiological status	326
C.A. Morgan, A. Hudson, A. Konopka, and C.H. Nakatsu Analyses of microbial activity in biomass-recycle reactors using denaturing gradient gel electrophoresis of 16S rDNA and 16S rRNA PCR products	333
C.H. De Toni, M.F. Richter, J.R. Chagas, J.A.P. Henriques, and C. Termignoni Purification and characterization of an alkaline serine endopeptidase from a feather-degrading <i>Xanthomonas maltophilia</i> strain	342
S. El Bassam, N. Benhamou, and O. Carisse The role of melanin in the antagonistic interaction between the apple scab pathogen <i>Venturia inaequalis</i> and <i>Microsphaeropsis ochracea</i>	349

A. Lauzier, C. Goyer, L. Ruest, R. Brzezinski, D.L. Crawford, and C. Beaulieu Effect of amino acids on thaxtomin A biosynthesis by <i>Streptomyces scabies</i>	359
A. Aschfalk and W. Müller Clostridium perfringens toxin types from wild-caught Atlantic cod (Gadus morhua L.), determined by PCR and ELISA	365
K.M. Riederer, J. Ramanathan, J. Barczak, J. Baran, Jr., and R. Khatib Utility of a pre-optimized kit for random amplified polymorphic DNA in typing <i>Candida albicans</i>	369
D.L. Erickson, V.L. Nsereko, D.P. Morgavi, L.B. Selinger, L.M. Rode, and K.A. Beauchemin Evidence of quorum sensing in the rumen ecosystem: detection of <i>N</i> -acyl homoserine lactone autoinducers in ruminal contents	374
May / mai	
S. Jensen, Ø. Bergh, Ø. Enger, and B. Hjeltnes Use of PCR-RFLP for genotyping 16S rRNA and characterizing bacteria cultured from halibut fry	379
A. Fessehaie, S.H. De Boer, and C.A. Lévesque Molecular characterization of DNA encoding 16S-23S rRNA intergenic spacer regions and 16S rRNA of pectolytic <i>Erwinia</i> species	387
F.C.O. Gomes, C. Pataro, J.B. Guerra, M.J. Neves, S.R. Corrêa, E.S.A. Moreira, and C.A. Rosa Physiological diversity and trehalose accumulation in <i>Schizosaccharomyces pombe</i> strains isolated from spontaneous fermentations during the production of the artisanal Brazilian <i>cachaça</i>	399
J.Y. Lee and B.K. Hwang Diversity of antifungal actinomycetes in various vegetative soils of Korea	407
S.P. Trosok, J.H.T. Luong, D.F. Juck, and B.T. Driscoll Characterization of two novel yeast strains used in mediated biosensors for wastewater	418
F. Chen, P.H. Goodwin, A. Khan, and T. Hsiang Population structure and mating-type genes of Colletotrichum graminicola from Agrostis palustris	427
LA. Agiato Foster Utilization and cell-surface binding of hemin by Histoplasma capsulatum	437
U.P. Singh, B.K. Sarma, D.P. Singh, and A. Bahadur Studies on exudate-depleted sclerotial development in <i>Sclerotium rolfsii</i> and the effect of oxalic acid, sclerotial exudate, and culture filtrate on phenolic acid induction in chickpea (<i>Cicer arietinum</i>)	443
G. Zárate, V. Morata De Ambrosini, A. Perez Chaia, and S. González Some factors affecting the adherence of probiotic Propionibacterium acidipropionici CRL 1198 to intestinal epithelial cells	449
C. Zhu, M. Ngeleka, A.A. Potter, and B.J. Allan Effect of fur mutation on acid-tolerance response and in vivo virulence of avian septicemic Escherichia coli	458
H.S. Vishniac Cryptococcus tephrensis, sp.nov., and Cryptococcus heimaeyensis, sp.nov.; new anamorphic basidiomycetous yeast species from Iceland	463
D. Asker and Y. Ohta PCR and blot hybridization for rapid identification of Haloferax species	468
A. Thibessard, A. Fernandez, B. Gintz, B. Decaris, and N. Leblond-Bourget Transposition of pGh9:ISS1 is random and efficient in Streptococcus thermophilus CNRZ368	473
June / juin	
J. Walther-Rasmussen and N. Høiby Plasmid-borne AmpC β-lactamases	479
M.J. Lehtola, I.T. Miettinen, and P.J. Martikainen Biofilm formation in drinking water affected by low concentrations of phosphorus	494
J.H. Andrews, R.N. Spear, and E.V. Nordheim Population biology of Aureobasidium pullulans on apple leaf surfaces	500
L.E. de-Bashan, Y. Bashan, M. Moreno, V.K. Lebsky, and J.J. Bustillos Increased pigment and lipid content, lipid variety, and cell and population size of the microalgae <i>Chlorella</i> spp. when co-immobilized in alginate beads with the microalgae-growth-promoting bacterium <i>Azospirillum brasilense</i>	
J.W. Buck and L.L. Burpee The effects of fungicides on the phylloplane yeast populations of creeping bentgrass	522
T.L. Heitman, L.M. Frederick, J.R. Viste, N.J. Guselle, U.M. Morgan, R.C.A. Thompson, and M.E. Olson Prevalence of <i>Giardia</i> and <i>Cryptosporidium</i> and characterization of <i>Cryptosporidium</i> spp. isolated from wildlife, human, and agricultural sources in the North Saskatchewan River Basin in Alberta, Canada	
R.C. Kuhn and K.H. Oshima Hollow-fiber ultrafiltration of Cryptosporidium parvum oocysts from a wide variety of 10-L surface water samples	542
R.S. Utkhede and S. Mathur Biological control of stem canker of greenhouse tomatoes caused by Botrytis cinerea	550

F. Intelmann and O. Spring Analysis of total DNA by minisatellite and simple-sequence repeat primers for the use of population studies in <i>Plasmopara halstedii</i>	555
N. Cimolai Are all MRSA made equal?	560
July / juillet	
W.B. Anderson, R.M. Slawson, and C.I. Mayfield A review of drinking-water-associated endotoxin, including potential routes of human exposure	567
C.S. Nautiyal, J.K. Johri, and H.B. Singh Survival of the rhizosphere-competent biocontrol strain <i>Pseudomonas fluorescens</i> NBR12650 in the soil and phytosphere	588
L. Saddi-Ortega, M.A.R. Carvalho, P.S. Cisalpino, and E.S.A. Moreira Actinobacillus actinomycetemcomitans genetic heterogeneity: amplification of JP2-like <i>ltx</i> promoter pattern correlated with specific arbitrarily primed polymerase chain reaction (AP-PCR) genotypes from human but not marmoset Brazilian isolates	602
M.B. Khetmalas, K.N. Egger, H.B. Massicotte, L.E. Tackaberry, and M.J. Clapperton Bacterial diversity associated with subalpine fir (<i>Abies lasiocarpa</i>) ectomycorrhizae following wildfire and salvage-logging in central British Columbia	611
H. Gaudreau, N. Renard, C.P. Champagne, and D. Van Horn The evaluation of mixtures of yeast and potato extracts in growth media for biomass production of lactic cultures	626
C.L. Patten and B.R. Glick Regulation of indoleacetic acid production in <i>Pseudomonas putida</i> GR12-2 by tryptophan and the stationary-phase sigma factor RpoS	635
P.E. Axelrood, M.L. Chow, C.S. Arnold, K. Lu, J.M. McDermott, and J. Davies Cultivation-dependent characterization of bacterial diversity from British Columbia forest soils subjected to disturbance	643
P.E. Axelrood, M.L. Chow, C.C. Radomski, J.M. McDermott, and J. Davies Molecular characterization of bacterial diversity from British Columbia forest soils subjected to disturbance	655
G.J. Balzer and R.J.C. McLean The stringent response genes <i>relA</i> and <i>spoT</i> are important for <i>Escherichia coli</i> biofilms under slow-growth conditions	675
August / août	
S.D. Pillai and S.C. Ricke Bioaerosols from municipal and animal wastes: background and contemporary issues	681
R. Villemur, M. Saucier, A. Gauthier, and R. Beaudet Occurrence of several genes encoding putative reductive dehalogenases in Desulfitobacterium hafniense/frappieri and Dehalococcoides ethenogenes	697
S. Lewenza, M.B. Visser, and P.A. Sokol Interspecies communication between <i>Burkholderia cepacia</i> and <i>Pseudomonas aeruginosa</i>	707
T.A. Edge and R.C. Wyndham Predicting survival of a genetically engineered microorganism, <i>Pseudomonas chlororaphis</i> 3732RN-L11, in soil and wheat rhizosphere across Canada with linear multiple regression models	717
C. Faille, C. Jullien, F. Fontaine, MN. Bellon-Fontaine, C. Slomianny, and T. Benezech Adhesion of <i>Bacillus</i> spores and <i>Escherichia coli</i> cells to inert surfaces: role of surface hydrophobicity	728
J.I. Rangel-Castro, J.J. Levenfors, and E. Danell Physiological and genetic characterization of fluorescent <i>Pseudomonas</i> associated with <i>Cantharellus cibarius</i>	739
E.R. Duarte, MA. Lachance, and J.S. Hamdan Identification of atypical strains of Malassezia spp. from cattle and dog	749
L. Li, Y.H. Jia, and S.Q. Pan Agrobacterium flagellar switch gene fliG is liquid inducible and important for virulence	753
S. Perrin, C. Fougnies, J.P. Grill, H. Jacobs, and F. Schneider Fermentation of chicory fructo-oligosaccharides in mixtures of different degrees of polymerization by three strains of bifidobacteria	759
September / septembre	
L.R. Barran, E.S.P. Bromfield, and D.C.W. Brown Identification and cloning of the bacterial nodulation specificity gene in the Sinorhizobium meliloti – Medicago laciniata symbiosis	765
A. Krechel, A. Faupel, J. Hallmann, A. Ulrich, and G. Berg Potato-associated bacteria and their antagonistic potential towards plant-pathogenic fungi and the plant-parasitic nematode <i>Meloidogyne incognita</i> (Kofoid & White) Chitwood	772
A.M. Kamp and M.J. Bidochka Protein analysis in a pleomorphically deteriorated strain of the insect-pathogenic fungus Metarhizium anisopliae	787

M.S. Islam, M.M. Goldar, M.G. Morshed, M.N.H. Khan, M.R. Islam, and R.B. Sack Involvement of the <i>hap</i> gene (mucinase) in the survival of <i>Vibrio cholerae</i> O1 in association with the blue-green alga, <i>Anabaena</i> sp.	793
M.A. Cottrill, S.P. Golovan, J.P. Phillips, and C.W. Forsberg Inositol phosphatase activity of the Escherichia coli agp-encoded acid glucose-1-phosphatase	801
K.L. MacDonald and T.J. Beveridge Bactericidal effect of gentamicin-induced membrane vesicles derived from <i>Pseudomonas aeruginosa</i> PAO1 on gram-positive bacteria	810
A.M. Gustafson, K.P. O'Connell, and M.F. Thomashow Regulation of <i>Sinorhizobium meliloti</i> 1021 <i>rrnA</i> -reporter gene fusions in response to cold shock	821
CF. Lee and TL. Hseu Genetic relatedness of Trichoderma sect. Pachybasium species based on molecular approaches	831
V. Vujanovic, C. Hamel, S. Jabaji-Hare, and M. St-Arnaud Development of a selective myclobutanil agar (MBA) medium for the isolation of <i>Fusarium</i> species from asparagus fields	841
M. Hatsu, J. Ohta, and K. Takamizawa Monitoring of Bacillus thermodenitrificans OHT-1 in compost by whole cell hybridization	848
P.E. Axelrood, M.L. Chow, C.C. Radomski, J.M. McDermott, and J. Davies Erratum: Molecular characterization of bacterial diversity from British Columbia forest soils subjected to disturbance	853
S. Lewenza, M.B. Visser, and P.A. Sokol Erratum: Interspecies communication between <i>Burkholderia cepacia</i> and <i>Pseudomonas aeruginosa</i>	855
October / octobre	
V. Shah and F. Nerud Lignin degrading system of white-rot fungi and its exploitation for dye decolorization	857
K. Ananda and K.R. Sridhar Diversity of endophytic fungi in the roots of mangrove species on the west coast of India	871
R.J. Holland, T.S. Gunasekera, K.L. Williams, and K.M.H. Nevalainen Ultrastructure and properties of <i>Paecilomyces lilacinus</i> spores	879
M. Kobayashi, H. Takahashi, D.N. Herndon, R.B. Pollard, and F. Suzuki Effect of a combination therapy between IL-12 and soluble IL-4 receptor (sIL-4R) on <i>Candida albicans</i> and herpes simplex virus type 1 infections in thermally injured mice	886
R.D. Jaramillo, B.C. Barraza, A. Polo, M. Sará, M. Contreras, and J.E. Escamilla The aerobic electron transport system of Eikenella corrodens	895
A.Y.C. Kwok, J.T. Wilson, M. Coulthart, LK. Ng, L. Mutharia, and A.W. Chow Phylogenetic study and identification of human pathogenic <i>Vibrio</i> species based on partial <i>hsp</i> 60 gene sequences	903
B.R. Min, G.T. Attwood, K. Reilly, W. Sun, J.S. Peters, T.N. Barry, and W.C. McNabb Lotus corniculatus condensed tannins decrease in vivo populations of proteolytic bacteria and affect nitrogen metabolism in the rumen of sheep	911
A. García-de los Santos, A. Morales, L. Baldomá, S.R.D. Clark, S. Brom, C.K. Yost, I. Hernández-Lucas, J. Aguilar, and M.F. Hynes The glcB locus of Rhizobium leguminosarum VF39 encodes an arabinose-inducible malate synthase	922
D.M. Byers and Z. Shen Biochemical evidence against protein-mediated uptake of myristic acid in the bioluminescent marine bacterium Vibrio harveyi	933
B. Normander and N.B. Hendriksen Effective dose of a microbial inoculant is one to four cells in the rhizosphere	940
R. Villemur, M. Saucier, A. Gauthier, and R. Beaudet Erratum: Occurrence of several genes encoding putative reductive dehalogenases in <i>Desulfitobacterium hafnienselfrappieri</i> and <i>Dehalococcoides ethenogenes</i>	945
November / novembre	
W. Ma, D.M. Penrose, and B.R. Glick Strategies used by rhizobia to lower plant ethylene levels and increase nodulation	947
J.S. Buyer, D.P. Roberts, and E. Russek-Cohen Soil and plant effects on microbial community structure	955
J. Arrizon and A. Gschaedler Increasing fermentation efficiency at high sugar concentrations by supplementing an additional source of nitrogen during the exponential phase of the tequila fermentation process	965
B.B. Landa, J.M. Cachinero-Díaz, P. Lemanceau, R.M. Jiménez-Díaz, and C. Alabouvette Effect of fusaric acid and phyto-anticipins on growth of rhizobacteria and Fusarium oxysporum	971
R. Greiner, A. Farouk, M. Larsson Alminger, and NG. Carlsson The pathway of dephosphorylation of <i>myo</i> -inositol hexakis-phosphate by phytate-degrading enzymes of different <i>Bacillus</i> spp.	986
L.L. Graham Campylobacter fetus adheres to and enters INT 407 cells	995

R. Chen, A.A. Bhagwat, R. Yaklich, and D.L. Keister Characterization of $ndvD$, the third gene involved in the synthesis of cyclic β - $(1\rightarrow 3)$, $(1\rightarrow 6)$ -D-glucans in <i>Bradyrhizobium japonicum</i>	1008
J. Peltola, L. Niessen, K.F. Nielsen, B.B. Jarvis, B. Andersen, M. Salkinoja-Salonen, and E.M. Möller Toxigenic diversity of two different RAPD groups of <i>Stachybotrys chartarum</i> isolates analyzed by potential for trichothecene production and for boar sperm cell motility inhibition	1017
M. Calonje, D. Bernardo, M. Novaes-Ledieu, and C. García Mendoza Properties of a hydrophobin isolated from the mycoparasitic fungus Verticillium fungicola	1030
P.H. Goodwin and G.YJ. Chen Expression of a glycogen synthase protein kinase homolog from Colletotrichum gloeo- sporioides f.sp. malvae during infection of Malva pusilla	1035
December / décembre	
J.M. Carbajo, H. Junca, M.C. Terrón, T. González, S. Yagüe, E. Zapico, and A.E. González Tannic acid induces transcription of laccase gene cglccl in the white-rot fungus Coriolopsis gallica	1041
J. Beckwith, J.D. Tjepkema, R.E. Cashon, C.R. Schwintzer, and L.S. Tisa Hemoglobin in five genetically diverse Frankia strains	1048
D.A. Martinez and B.C. Nudel The improvement of lipase secretion and stability by addition of inert compounds into Acinetobacter calcoaceticus cultures	1056
N.E. Leyva-López, J.C. Ochoa-Sánchez, D.S. Leal-Klevezas, and J.P. Martínez-Soriano Multiple phytoplasmas associated with potato diseases in Mexico	1062
W.D. Fakhouri and H. Buchenauer Enhancement of population densities of fluorescent pseudomonads in the rhizosphere of tomato plants by addition of acibenzolar-S-methyl	1069
M.F. Santiago and T.P. West Control of pyrimidine formation in Pseudomonas putida ATCC 17536	1076
E. Costa, J. Usall, N. Teixidó, J. Delgado, and I. Viñas Water activity, temperature, and pH effects on growth of the biocontrol agent <i>Pantoea agglomerans</i> CPA-2	1082
D.M. Stamper, M. Radosevich, K.B. Hallberg, S.J. Traina, and O.H. Tuovinen <i>Ralstonia basilensis</i> M91-3, a denitrifying soil bacterium capable of using s-triazines as nitrogen sources	1089
R. Boopathy, M. Robichaux, D. LaFont, and M. Howell Activity of sulfate-reducing bacteria in human periodontal pocket	1099
P.C. Farley and S. Santosa Regulation of expression of the Rhizopus oryzae uricase and urease enzymes	1104
S. Lumyong, P. Lumyong, E.H.C. McKenzie, and K.D. Hyde Enzymatic activity of endophytic fungi of six native seedling species from Doi Suthep-Pui National Park, Thailand	1109
Announcement / Communiqué	iii
Note of appreciation / Note de reconnaissance	v
Author index for Volume 48 / Index des auteurs pour le volume 48	AI-1
Subject index for Volume 48 / Index des matières pour le volume 48	SI-1
Contents for Volume 48 / Sommaire pour le volume 48	C-1

